



Amino Acid Abbreviations (IUPAC)

Course Home Modules Schedule Site Search Comments Credits

NCBI

Molecular Biology Review

Intrductory Course

Course Home Modules Schedule Site Search Comments Credits



Authority Reference

IUPAC-IUB Joint Commission on Biochemical Nomenclature. IUPAC-IUB Joint Commission on Biochemical Nomenclature.

Nomenclature and Symbolism for Amino Acids and Peptides. Eur. J. Biochem. 138:9-37 (1984). /anticodon, /codon, /transl_except

Listing (note that the abbreviations are legal values for amino acids, not the full names)

Abbreviation	Amino acid name
Ala	Alanine
Asp	Aspartic acid
Cys	Cysteine
Gly	Glycine
His	Histidine
Ile	Isoleucine
Lys	Lysine
Leu	Leucine
Met	Methionine
Asn	Asparagine
Val	Valine
Pro	Proline
Arg	Arginine
Thr	Threonine
Ala	Alanine
Asp	Aspartic acid
Cys	Cysteine
Gly	Glycine
His	Histidine
Ile	Isoleucine
Lys	Lysine
Leu	Leucine
Met	Methionine
Asn	Asparagine
Val	Valine
Pro	Proline
Arg	Arginine
Thr	Threonine

Ala	A	Alanine
Arg	R	Arginine
Asn	N	Asparagine
Asp	D	Aspartic acid (Aspartate)
Cys	C	Cysteine
Gln	Q	Glutamine
Glu	E	Glutamic acid (Glutamate)
Gly	G	Glycine
His	H	Histidine
Ile	I	Isoleucine
Leu	L	Leucine
Lys	K	Lysine
Met	M	Methionine
Phe	F	Phenylalanine
Pro	P	Proline
Ser	S	Serine
Thr	T	Threonine

Trp	W	Tryptophan
Tyr	Y	Tyrosine
Val	V	Valine
Asx	B	Aspartic acid or Asparagine
Glx	Z	Glutamine or Glutamic acid.
Xaa	X	Any amino acid.
TERM		termination codon

Source: Appendix V: Controlled Vocabularies of the
DDBJ/EMBL/GenBank Feature Table Definition, Version 4.0 Dec 15 2001